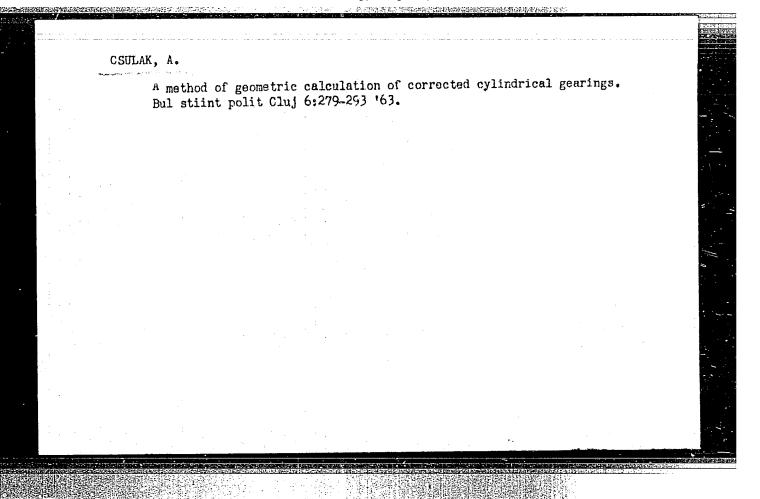
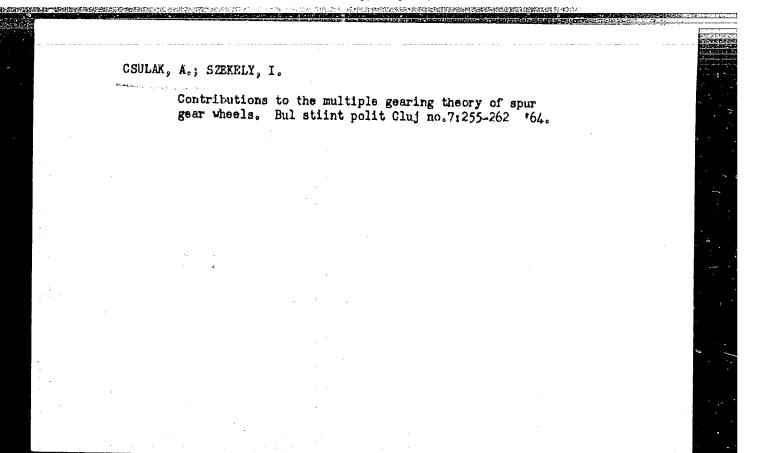
MAROS, Dezideriu, ing.; CSULAK, Acatiu, ing.; LEMY, Ladislau, ing.

Profiling the worm cutters for the machining of ratchet wheels by rolling method. Metalurgia constr mas 13 no.10:880-884 0 '61.

(Metal-cutting tools)
(Rolling(Metalwork)





CSULLAG, Jozsef, dr.

Ecsinophilic granuloma of the skull-cap, appearing in the form of multiple myeloma. Magy. radiol. 15 no.5:299-302 S '63.

1. A Pecsi Orvostudomanyi Egyetem I sz. Belklinika (igazgato:
Barta Imre dr. egyetemi tanar) kozlemenye.
(SKULL NEOPLASMS) (EOSINOPHILIC GRANULOMA)
(MULTIPLE MYELOMA) (DIAGNOSIS, DIFFERENTIAL)
(BIOPSY) (RADIOGRAPHY) (NEOPLASM RADIOTHERAPY)

LAMPE, Istvan; H. TOMITS, Gabriella; CSULLOG, Ferenc

Our audiometric and otoneurological observations on glaucoma patients. Szemeszet 100 no.3:145-149 S 1634

1. Debreceni Orvostudomanyi Egyetem Ful-orr-gegeklinikajanak (Igazgato: Jakabfi Imre egyet. tanar) es Szemklinikajanak (Igazgato: Kettessy Aladar egyet. tanar) kozlemenye. (GLAUCOMA) (NYSTAGMUS) (COCHLEA) (AUDIOMETRY) (VESTIBULAR FUNCTION TESTS)

CZECHOSLOVAKIA

CSUPKA, S; PETRASOVA, M; CARACH, J.

Section on Radiation Hygiene (Oddelenie radiacnej hygieny), KHES, Bratislava - (for all).

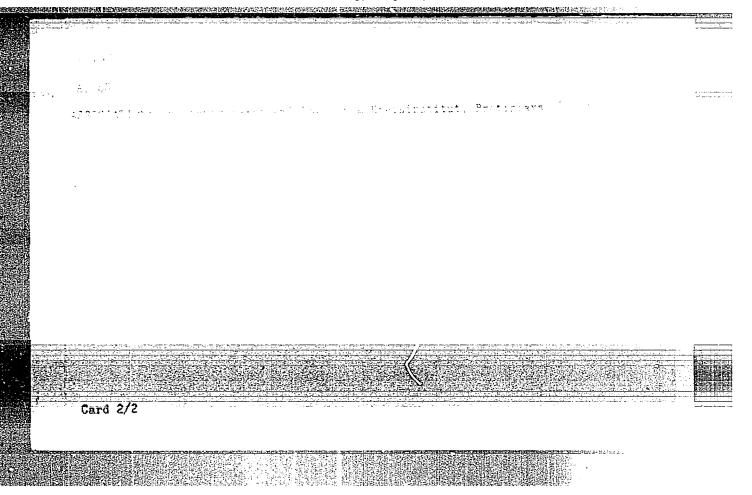
Prague, Ceskoslovenska hygiens, No 10, December 1965, pp 615-617

"Content of Sr 90 and Cs 137 in radioactive deposit 1964."

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942

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ACC NR: AP6014979 SOURCE CODE: CZ/0038/66/000/001/0016/0019
AUTHOR: Csupka, Stefan-Chupka, Sh.; Petrasova, Maria-Petrashova, M.; Carach, Jozef-Tsarakh, T.
CRG: Regional Hygiene-Epidemiological Station, Bratislava (Krajska hygienicko-
TITLE: Contemination of the biosphere by sup 137 Cs from weapon test fallout
SOURCE: Jaderna energie, no. 1, 1966, 16-19
TOPIC TAGS: cesium radioactive fallout, atmospheric contamination, radioactive contamination
ABSTRACT: The concentration of 137Cs in the precipitation on the territory of western Slovakia was measured in 1962 and 1963. The total \$\textit{\textit{\textit{B}}}-\textit{\textit{\textit{\textit{B}}}} active precipitation had, in 1963, a tendency to decrease. The specific gravity of the semi-monthly activity of 137Cs in the total \$\textit{\textit{B}}
SUB CODE: 18 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 010 / SOV REF: 001
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Card 1/1 UDC: 546,36.02: 621.039: 614.7(437)

CZECHOSLOVAKIA

CSUPKA, Stefan; CARACH, Jozef; PETRASOVA, Maria; Krajska Station of Hygiene and Epidemiology (Hygienicko Epidemiologicka Stanice), Bratislava.

"Content of Radioactive Strontium and Caesium in the Roots and Leaves of Vegetables in 1964, and the Ecology of the Plants."

Bratislava, Biologia, Vol 21, No 6, 1966, 432 -437

Abstract: The content of Sr⁹⁰ and Cs¹³⁷ in vegetables in Western Slovakia was investigated during 1964. During the spring season the vegetables contained nearly twice as much of the radioactive elements as during the fall. The leaves contained about 1½ timeso as much of the radionuclides as the roots. A daily intake of Sr per inhabitant based on the consumption of vegetables averaged 2.8 pCi of Sr, and 4.2 pCi of Cs¹³⁷. 4 Tables, 7 Western, 2 Czech, 1 Russian reference. (Manuscript received 10 Nov 65).

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R0005094 PETRASOVA, M.; CSUPKA, S.; CARACH, J.

The results of radioactivity measurements of dust and rain falls in western Slovakia in 1961-1963. Cesk. hyg. 9 no.10:595-500 D * 64.

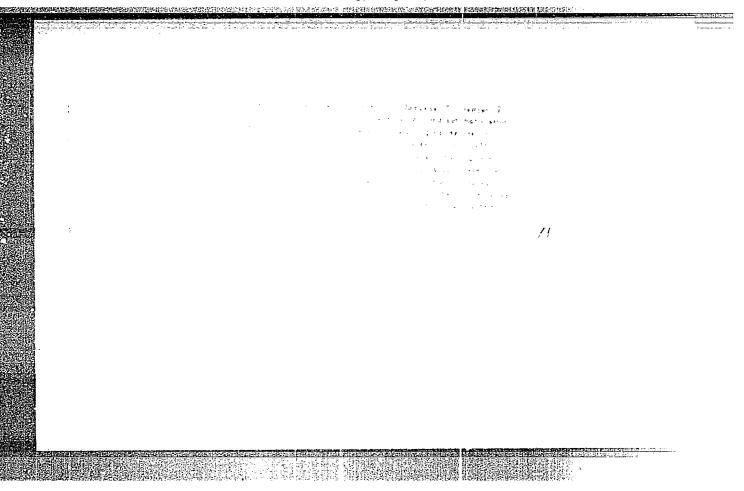
1. Oddelenie adiacnej hygieny Erajskej hygienicko-spidemiologickej stanicy, Bratislava. CSUFKA, S.; PETRASOVA, M.; CARACH, J.

Content of Sr90 and Cs137 in radioactive deposit in 1964.
Cesk. hyg. 10 no.10:615-617 D '65.

1. Oddelenie radiacnej hygieny Krajskej hygienicko-epidemiologickej stanice, Bratislava.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000509420

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942



CSUPOR, L.

"Economy of Materials in Some of our Machine Factories", P. 5, (TOBBTERWELES, Vol. 8, No. 8, July 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

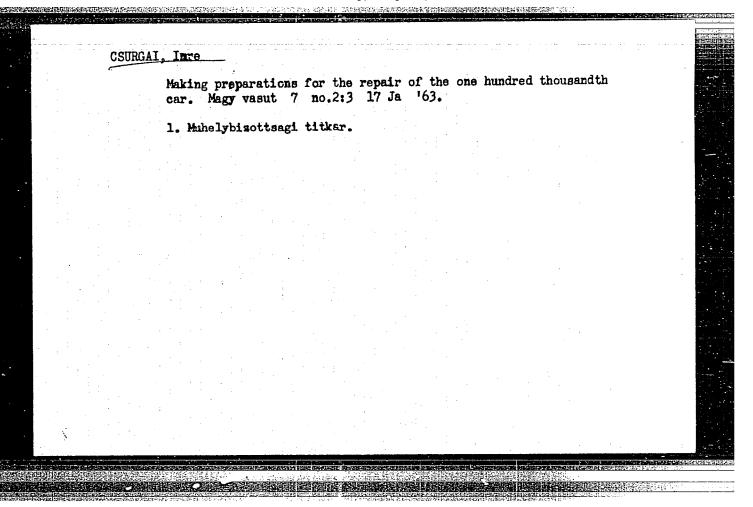
LIMPAR, Istven, oklveles kohomernok; CSURBAKOVA, Tatjana, okleveles kohomernok

Far formation tests on deep-drawn aluminum sheets. Kch lap 97 no.10:470-475 0 '64.

OSURES, Z.

Scientific results and tasks in light industry; also, remarks by A. Kiss and others. p. 75 KOZLEMENYEI. Budapest. (Reports issued by the Section of Technical Sciences, Hungarian Academy of Sciences. Quarterly) Vol. 14, No. 1/3 1954

SCURCE: East European Accessions List (EEAL) Library Of Congress Vol. 5, No. 6, June 1956



CSURGAI, Lajos; KORTVELYES, Istvan

Chemicalization in agriculture. Elet tud 17 no. 16:503-506 22 Ap '62.

CSURGAY, Arpad

Signal transmission problems of moving points. Hir techn 11 no.4:151-159 Ag 160.

1. Tavkozlesi Kutato Interet.

Designing inhomogeneous transmission line sections with prescribed reflection. Magy hir techn 12 no.3185-93 Je '61. 1. Tavkozlesi Kutato Inteset.

85632

H/009/60/000/004/001/001 A211/A026

6.2000 (2903,3003,3203,3303)

AUTHOR:

Csurgay, Árpád

TITLE:

On Signal Transmission Problems of Moving Points

PERIODICAL: Hiradastechnika, 1960, No. 4, pp. 151 - 159

TEXT: In the investigation of signal transmission of moving objects it was supposed that transmitter and receiver, which are to be connected by the signal channel, are in inertial position or, at least, that their speed could be ignored since their speed compared with the speed of light is negligible. The signal transmission of rockets traveling at light speed or coming close to it presents a different problem and can be solved by the general examination of signal transmission problems of moving objects applying the special theory of relativity. To determine the quality of intelligence transmitted between two such moving objects, the author deals with two problems. First he describes the electromagnetic field of antennas moving with high velocity, and secondly he determines the amplitude and frequency radiation pattern of transmitter and receiver antenna. He arrives by various equations at a final formula which represents the type of the intelligence transmitted as a time function:

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On Signal Transmission Problems of Moving Points

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$$f_{B}(t) = \frac{A(\phi^{i}, \tilde{J}^{i})}{r_{0}} \mathcal{X}(1 + \frac{v}{c}\cos\phi^{i}) \sum_{i=1}^{\infty} C_{i} e^{j\omega^{i}} i \mathcal{X}(1 + \frac{v}{c}\cos\phi^{i}) (t - \frac{nr_{0}}{c}). \tag{49}$$

This equation contains 1) the transformed equation representing frequency radiation pattern $\omega = \omega^{\dagger} \varkappa (1 + \frac{v}{c} \cos \phi^{\dagger})$ (39), where ω is the frequency received, ω^{\dagger} the frequency transmitted and ϕ^{\dagger} the angle formed by the antenna and the direction in which it moves; 2) the transformed equation representing the amplitude radiation pattern $E = \frac{A}{r!} \varkappa (1 + \frac{v}{c} \cos \phi^{\dagger})$ (41), where A is the transmitting antenna and r^{\dagger} the distance between antennas. The last section of the equation (49) is the equation $f_A(t^{\dagger}) = \sum_{i=1}^{\infty} C_i e^{j\omega^i 1 t^i}$ (47), representing trans-

mitted f_A (t') function given in the Fourier-series as sum of its harmonic components. When the radiation pattern of the antenna is A (ϕ^i, δ^i) , the discernible field intensity is

 $E' = \frac{A \left(\varphi', \vartheta'\right)}{r!} \sum_{i=1}^{\infty} C_i e^{j\omega'} i \left(t - \frac{r'r'}{r'} \cdot \frac{I}{c}\right), \tag{48}$

which is in fact a flat wave propagating in the r direction. The author inves-

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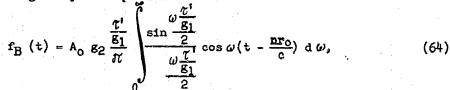
On Signal Transmission Problems of Moving Points

H/009/60/000/004/001/001 A211/A026

tigates the distortion of electromagnetic waves at some specific distances between transmitter and receiver with the help of the equation (49). It is apparent from this equation that amplitude as well as frequency of different components is variable in relation to the function of time. Through a comparison of the Fourier series (48) and (49) it can be established that the ratio of the individual amplitude and frequency components is constant at any moment and equal to the ratio of the original values of the corresponding components. The absolute band width and the carrier frequency change proportionately with the time. The signal sent by the transmitter is expressed by the equation

 $f_{A}(t') = \frac{\tau'}{\pi} \int_{0}^{\infty} \frac{\sin \frac{\omega' \tau'}{2}}{\frac{\omega' \tau'}{2}} \cos \omega' t' \cdot d\omega'$ (62)

and the received signal by the equation



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On Signal Transmission Problems of Moving Points

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where g1 is the frequency change; g2 the amplitude change in time function, and t the time of impulses sent by the transmitter. The author further shows by calculations how the signals would change through the relative velocity between transmitter and receiver in four hypothetical transmissions. In the first example the author assumes that a rocket, traveling at a distance of 1,740,000 km from earth at a speed half that of light, would send SOS signals to a station on earth. The signals received on earth would be as presented in Figure 10. In the second example, the author assumes that two rockets are traveling away from the earth, one at a speed of 0.385 m and the other at 0.6 xc. Were a station on earth to transmit the Beethoven's Fifth Symphony to these rockets, then the first would receive this transmission one quint lower and each tone would be 1.5 times longer than the original one. The other would receive this transmission one octave lower and each tone would be two times longer. In the third example, the author assumes that a rocket approaching the earth were to send a one-hour comment to earth. How this transmission would be received on earth is shown in the equation

 $\frac{\sigma}{\tau} = \frac{1 - \frac{v}{c}}{\sqrt{1 - \left(\frac{v}{c}\right)^2}} = \sqrt{\frac{1 - \frac{v}{c}}{1 + \frac{v}{c}}}$

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On Signal Transmission Problems of Moving Points

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The last example assumes a journey to Sirius. To the traveler this journey would last 12 years, but on earth 15 years would elapse. A continuous 12-year comment transmitted during this journey from the rocket to the earth would be heard over a period of 24 years on earth. A return journey from Sirius would appear also as a 12-year journey to the traveller but on earth again 15 years would elapse, whereas the transmission of a comment during the return journey would be heard on earth only over a period of 6 years. There are 11 figures and 5 references: 3 Hungarian and 2 German.

ASSOCIATION: Távközlési Kutató Intézet (Telecommunication Research Institute)

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Card 5/5

9,1400

AUTHOR:

Csurgay, Arpad

TITLE:

Designing lengths of inhomogeneous transmission lines with

prescribed reflection

PERIODICAL:

Magyar Hiradastechnika, no. 3, 1961, 85-93

TEXT: In investigating the problem of a length of an inhomogeneous transmission line, used for matching junctions of two transmission lines with different characteristic impedance, the author deals with (1) dewith different characteristic impedance, the author deals with (1) dewith different characteristic impedance, the author deals with an arbitrary termining of the reflection function of a transition and (2) determining of the geometrical configuration of a transition defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of his tion defined by a given reflection fuction. In the first section of a transition with an arbitrary termining of the geometrical configuration with an arbitrary termining of the ge

Card 1/6

Designing lengths of inhomogeneous transmission lines with prescribed reflection

Impedance Transformers, Proc. IEE, Part B, March, 1956), and points out the conditions under which a length of such a line can be considered as a transmission line with varying characteristic impedance. In the second section, the author deals with the synthesis of an incident reflection frequency function of a length of an inhomogeneous transmission line with matched terminals. The investigation of the designing problems of a transition with prescribed parameters is based on the fact that the relation between the contour function

$$f(x) = -\frac{1 Y_0'(x)}{2 Y_0(x)} = \frac{1}{2} \frac{d(InZ_0(x))}{d_x}$$
 (16)

where \mathbf{Y}_{0} is transmission line admittance and \mathbf{Z}_{0} , characteristic impedance

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Designing lengths of inhomogeneous transmission lines with prescribed reflection

of the transmission line, and the reflection frequency function of a length of an inhomogeneous transmission line, is analogous to the relation of irradiation function and directional characteristic of slot antennas, as described by Kovács and Solymár (Ref. 11: Acta Technica, 1956). The incident reflection frequency function is equal to one of the elements in the diagonal of the reflection matrix; the element, on the other hand, is equal to the Fourier transform of the contour function

$$f(x) = G^{-1}\left\{h(\Omega)\right\} = \sum_{k=0}^{n} \frac{c_k}{2} \cos \frac{k\pi x}{L} \qquad (11)$$

Consequently, the synthesis is solved with the inversion of the Fourier transform. The inverse Fourier transform of the given reflection function is equal to the contour function from which the characteristic impedance

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Designing lengths of inhomogeneous transmission lines with prescribed reflection

function

$$Z_{o}(x) = \sqrt{\frac{Z_{o1}Z_{o2}}{z_{o1}}} \exp \left\{ \frac{1}{2L} \left(\ln \frac{Z_{o2}}{Z_{o1}} \right) x + \sum_{k=1}^{n} \frac{C_{k}L}{k\pi} \sin \frac{k\pi x}{L} \right\}$$
 (17)

is derived. The geometrical data of a length of an inhomogeneous transmission line can be computed from this equation where Z and Z are the characteristic impedances of lines to be connected. With the help of Eq. (17), the author and his associates designed and constructed a transition, with zero reflection at 3,600 and 3,800 Mc, for a microwave circuit of a broadband radio network. The standing wave ratio of the transition, as a function of frequency, was measured by conventional methods and the data are shown in Fig. 9. There are 9 figures and 17 references: and the data are shown in Fig. 9. There are 9 figures are 17 references to 5 Soviet-bloc and 12 non-Soviet-bloc. The four most recent references to English-language publications read as follows: L. Solymár: On Higher Order

Card 4/6

Designing lengths of inhomogeneous transmission lines with prescribed reflection

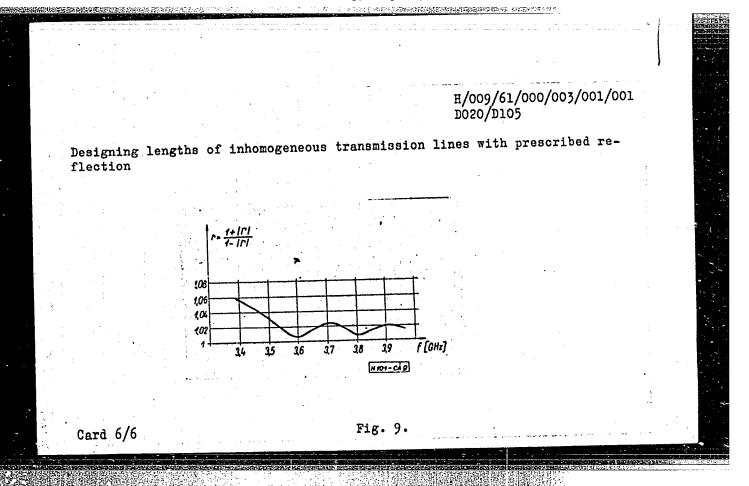
Approximations to the Solution on Nenuniform Transmission Lines, Proc. IRE, Nov., 1957; K. Matsumaru: Reflection Coefficient of E-Plane Tapered Rectangular Waveguide, IRE Transactions on MTT, April, 1958; K. Matsumaru: Reflection Coefficient of a Pyramidically Tapered Rectangular Waveguide, IRE Transactions on MTT, April, 1959; G. Reiter: Generalised Telegraphist's Equation for Waveguides of Varying Cross-section, Convention on Long-Distance Transmission by Waveguide, Jan., 1959, Proc. IEE, Part B.

ASSOCIATION:

Távkozlési Kutató Intézet (Telecommunication Research In-

stitute)

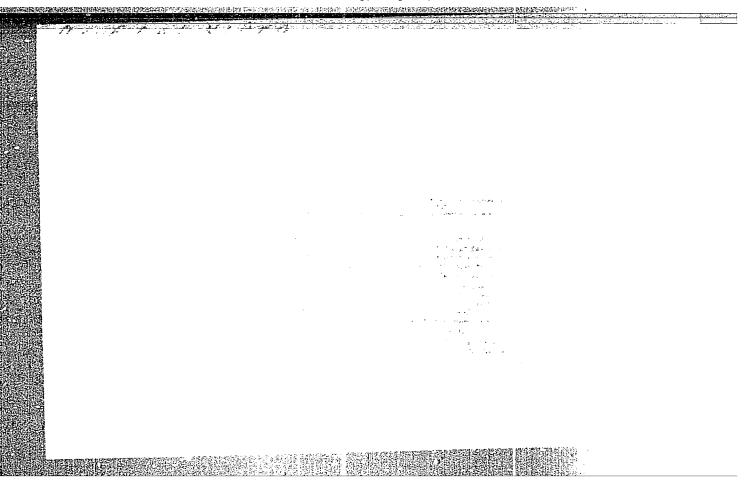
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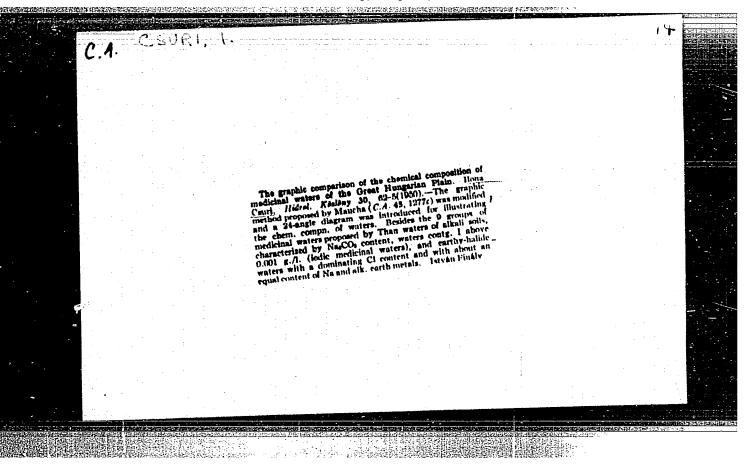


CSURGAI, A. [Csurgay, A.]; SENASHI, Sh. [Szenasi, S.]

Analysis of microwave noisy mixers. Acta techn Hung 42
no.1/3:171-179 '63.

1. Nauchno-issledovatel'skiy institut svyazi, Budapesht.





CSUROS, Csaba, biologus

Single-cell parasites of our organism. Term tud kozl 8 no. 2: 77-80 F $^{1}64.$

1. Baranya megyei Kozegeszsegugyi es Jarvanyugyi Allomas, Pecs.

Therapy

HUNGARY

KAMARAS, Janos, Dr., and CSUROS, Eva, Dr., First Pediatric Clinic at the University for Medical Sciences (Orvostudomanyi Egyetem, I. Gyermekklinika) in Budapest (Director: GEGESI KISS, Pal, Dr.).

"Experiences with Steroid Therapy in Rheumatic Fever"

THE PROPERTY OF THE PROPERTY O

Budapest, Orvosi Hetilap, Vol 107, No 28, 10 Jul 1966, pp 1297-1300.

Abstract: The authors describe 237 cases of children suffering from rheumatic fever and carditis, respectively. All were afflicted for less than 30 days before treatment commenced, and all showed signs of the disease for the first time. The effects of therapy employing prednisolone + amidazophene and amidazophene alone were discussed with respect to total recovery and any cardiac changes that developed. The criteria for the classification of the cases were described and it was recommended that the treatment involving prednisolone be employed in all cases where there is a suspicion of carditis. 65 references, including 9 Hungarian, 1 Russian, 1 German, and 54 Western.

1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R0005094

On the problem of differential diagnosis of unilateral polycystic kidney. Magy. sebeszet 14 no.2:119-123 Ap '61.

1. A Budapesti Orvostudomanyi Egyetem Urologiai Klinika (Igazgato: dr. Babics Antal egyetemi tanar, akademikus) es az I. sz. Gyermekklinika (Igazgato: dr. Gegesi Kiss Pal egyetemi tanar, akademikus) kozlemenye.

(KIDNEY DISEASES diag)

LANCOS, Ferenc, dr.; CSUROS, Eva, dr.; KAMARAS, Janos, dr.; HALMAI, Zsuzsa, dr.

Ivemark syndrome associated with bilateral embolism of the common carotid artery. Gyermekgyogyaszat 15 no.4:120-127 Ap*64.

1. A Budapesti Orvostudomanyi Egyetem I.sz. Gyermekklinikajanak (igazgato: Gegesi Kiss, Pal, dr., akademikus, egyetemi tanar) es a II.sz.Korbonctani Intezetenek (igazgato: Haranghy, Laszlo, dr., akademikus, egyetemi tanar) kozlemenye.

*

lancos, F.; CHUROS, Eva; KAMARAS, J.; HALMAT, Zs.

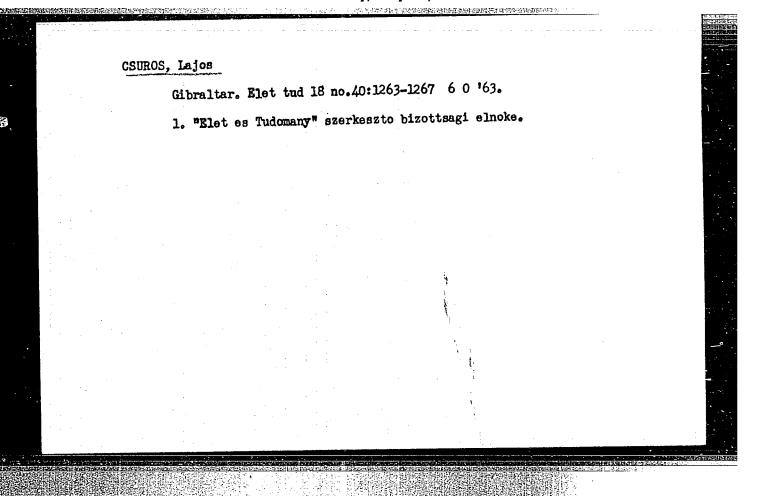
Ivemark's syndrome with bilateral embolism of the common carotid artery. Acta paedict. Acad. sci. Hung. 5 no.3x317-327 164

1. I. Kinderklinik und II. Pathologisch-Anatomisches Institut der Medizinischen Universitat, Budapest.

KANADAS, J.; CEURCS, Eva

Storold treatment in rheumatic fever. Acta paediat. acad. coi. Hung. 6 no.3/4:35%-365 165.

1. First Department of Passistries, University Medical School, Budspest, Submitted May 27, 1965.



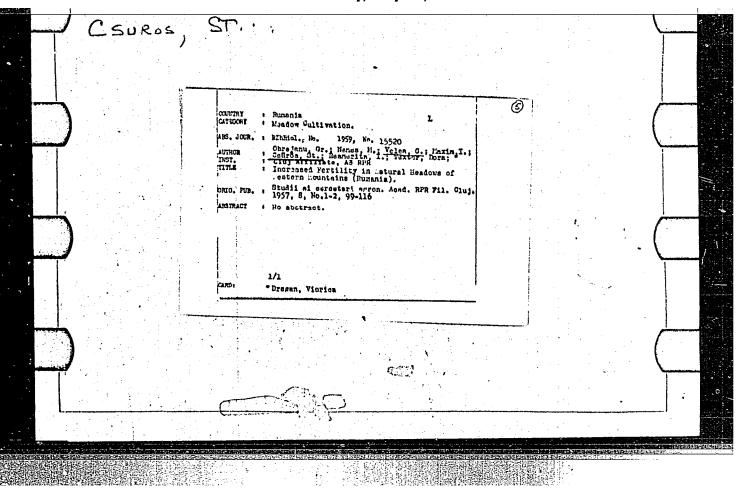
CSUROS, S.

Contributions to the study of macromycetes in the Harghita Mountains. p. 12.

ANALELE ROMINA-SOVIETICE. SERIA AGRICULTURA Vol. 10, No. 3, May/June 1956., Rumania

SOURCE: East European Accessions Lists, Vol. 5, No. 10, Library of Congress, Oct. 1956.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942



CSUROS, S.

A review of <u>Vegetation Studies in the Region of Orseg.</u> Hungarian Part of the <u>Eastern Slopes of the Alps</u> by T. Pocs and others. p. 363.

Academia Republicii Populare Romine. Filiala Cluj. STUDII SE CERCETARI DE BIOLOGIE. Cluj, Rumania. Vol. 9, no. 2, 1958.

Monthly List of East European Accessions (EEAI) Vol. 8, no. 7, July 1959.

Uncl.

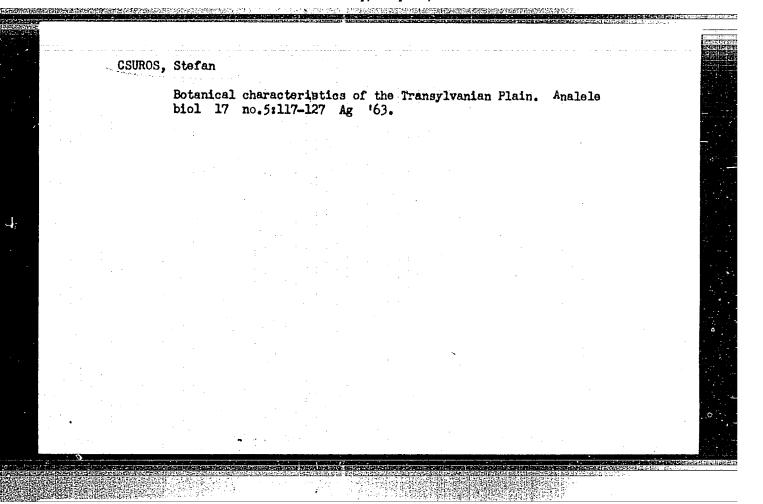
CSUROS, St.; RESMERITA, I.

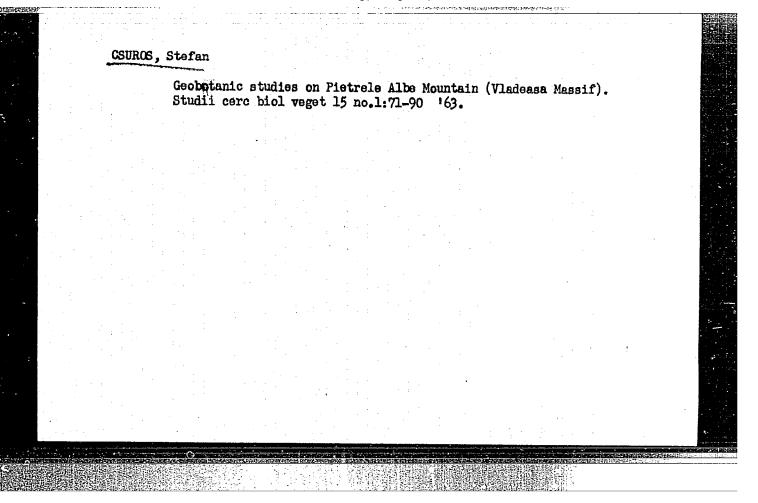
The evolution process of prairies with Festuca rubra in Transylvania. Studii cere biol veget 13 no.2:223-232 '51.

(REAI 10:11/12)

1. Catedra de botanica a Universitatii Babes-Bolyai si Sectia de pasuni si finete a Sfatului Regional Cluj. Comunicare presentata da academician Emil Pop.

(Festuca)





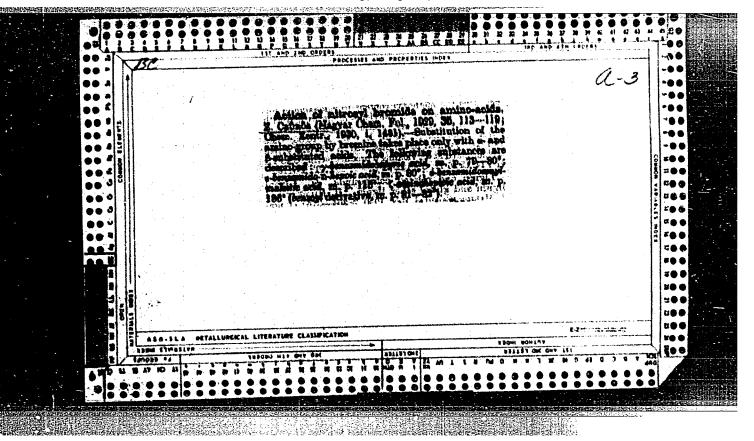
RESMERITA, I.; NEMES, M.; CSUROS, St.

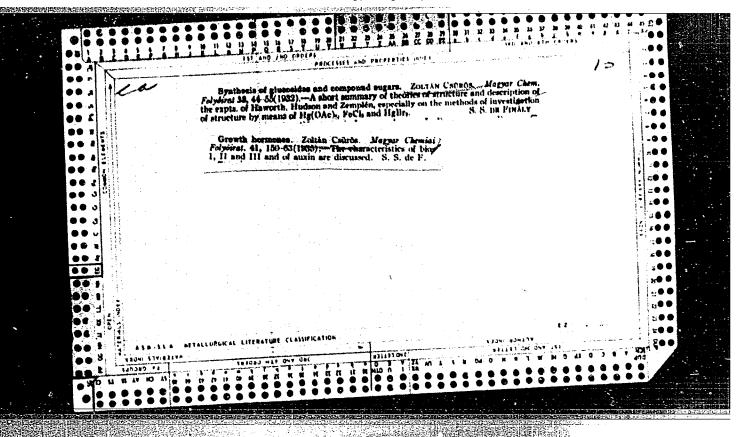
Stationary research on the grassy vegetation on the Vladeasa-Micau Massif. Studii cerc biol veget 15 no.1:131-150 163.

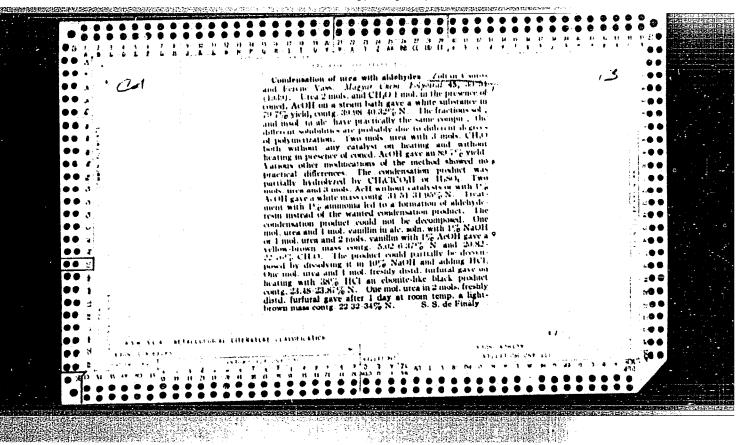
BECK, Mihaly; BITE, Pal; BRUCKNER, Gyozo; CSENTES, Jozsef; CSUROS, Zoltan; DEAK, Gyula; ERDEY-GRUZ, Tibor; ERDEY, Iaszlo; FABIAN, Pal; FINALY, Istvan; FODOR, Gabor; FODORNE CSANYI, Piroska; GYORBIRO, Karoly; INZELT, Istvan; KUCSMAN Arpad; NEUMANN, Erno; PUNGOR, Erno; SCHNEER, Anna; SCHULEK, Elemer; SZABADVARY, Ferenc

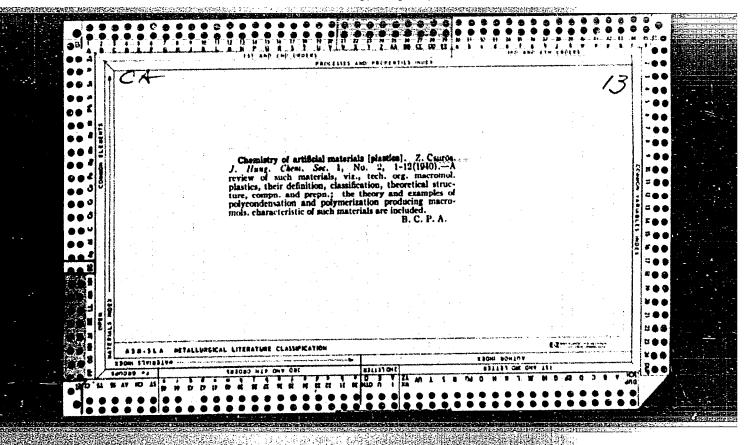
Rules for the Hungarian chemical nomenclature and orthography. Kem tud kozl MTA 17 no.1/4:1-292 162.

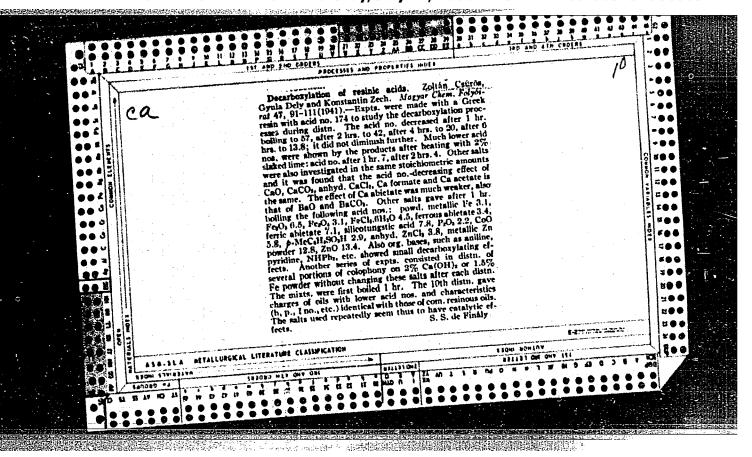
1. "A Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja (for Bruckner, Csuros, Iaszlo Erdey, G.Fodor, and Schulek). 2. "A Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak Kozlemenyei" szerkesztoje (for Erdey-Gruz). 3. "A Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak Kozlemenyei" technikai szerkesztoje (for Finaly). 4. Muvelodesugyi Miniszterium (for Csentes). 5. Magyar Tudomanyos Akademia Helyesitasi Bizottsage (for Fabian). 6. Nehezipari Miniszterium (for Neumann).

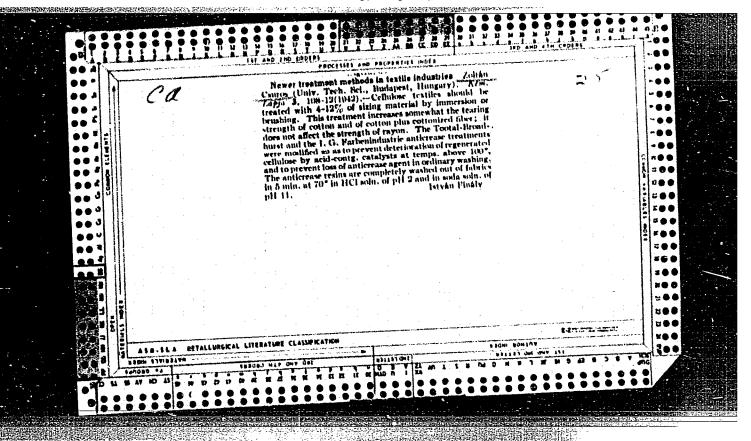


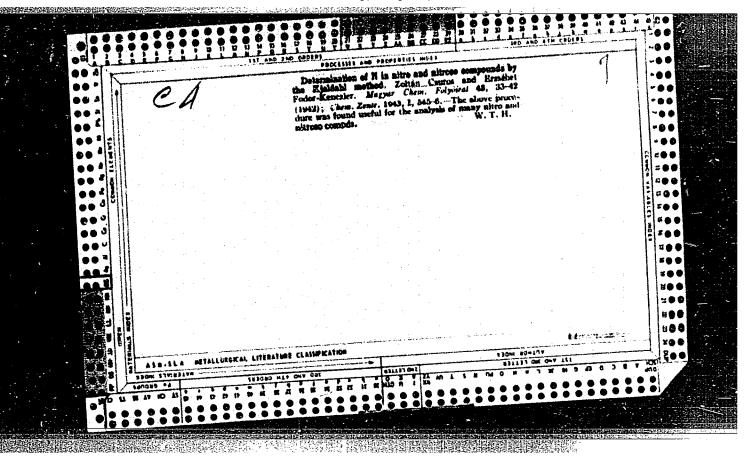


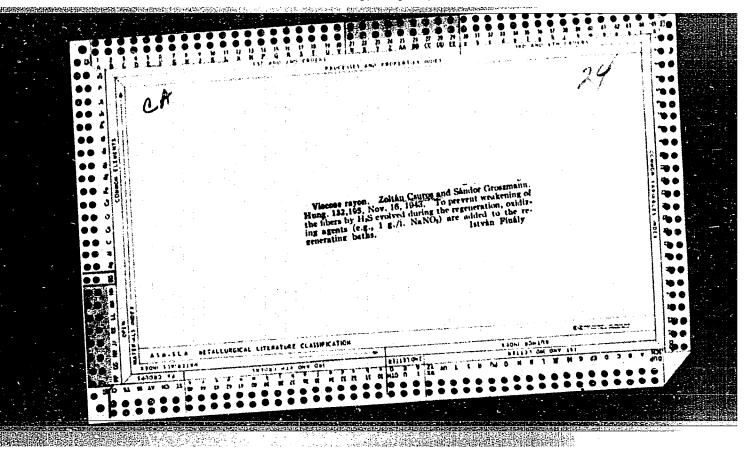


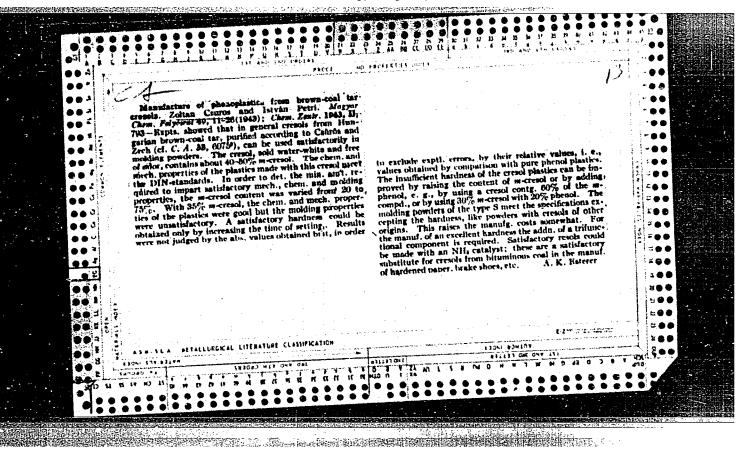


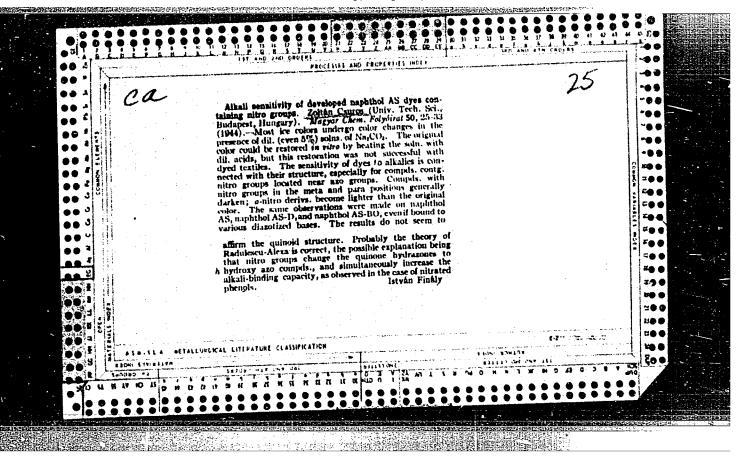


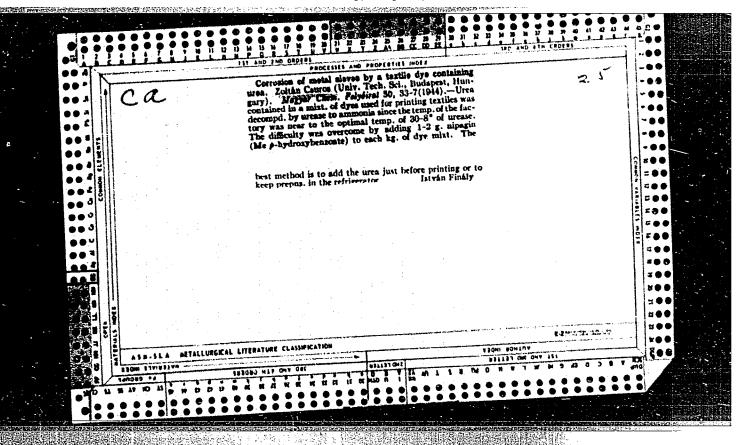


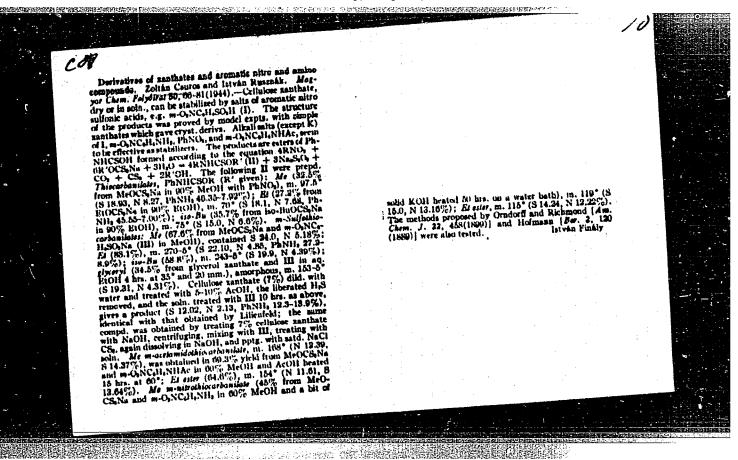


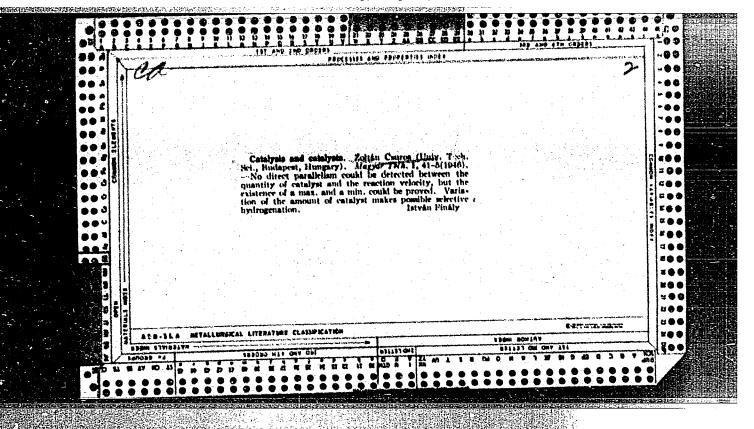


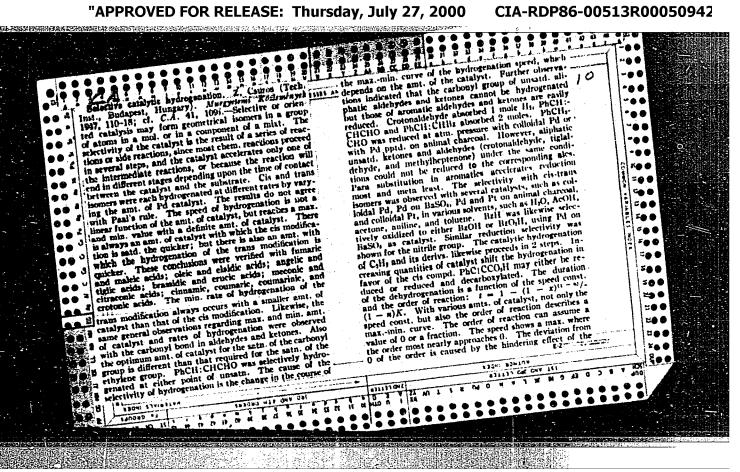


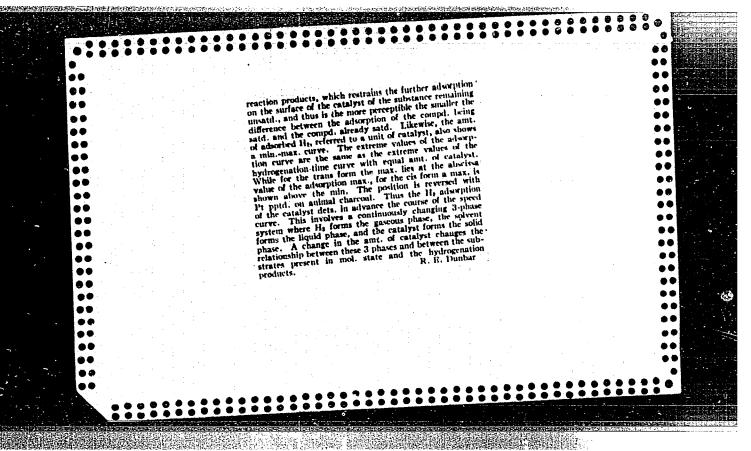


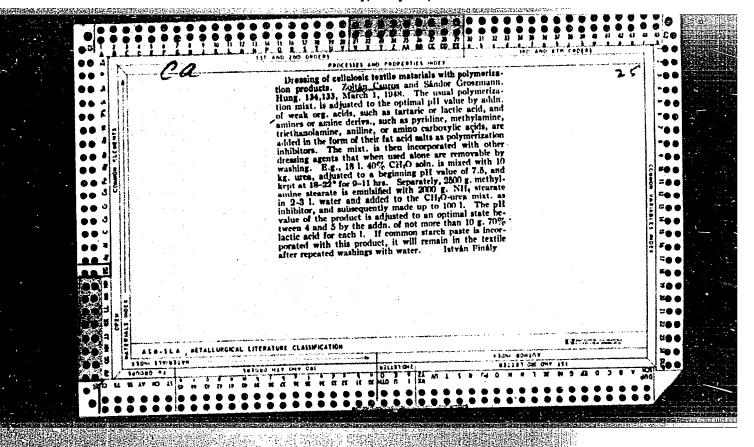


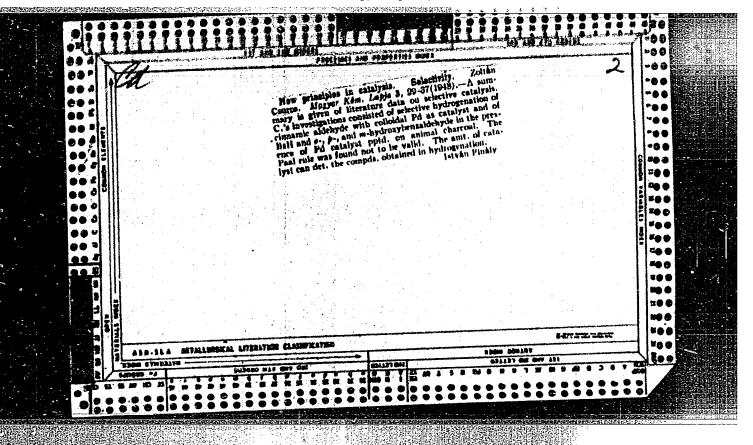




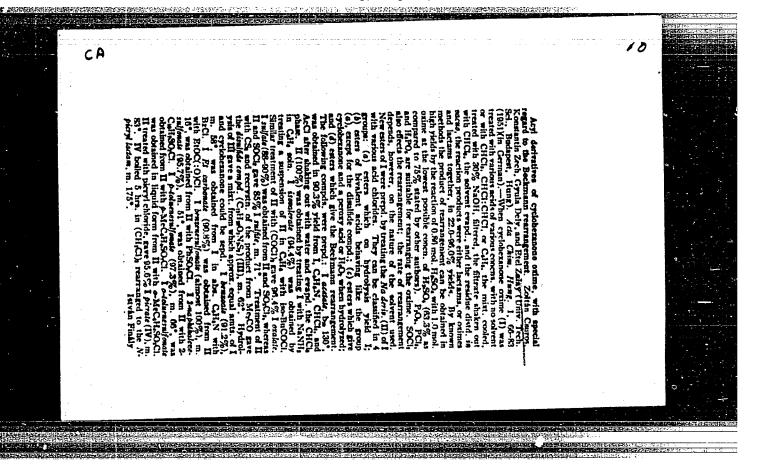


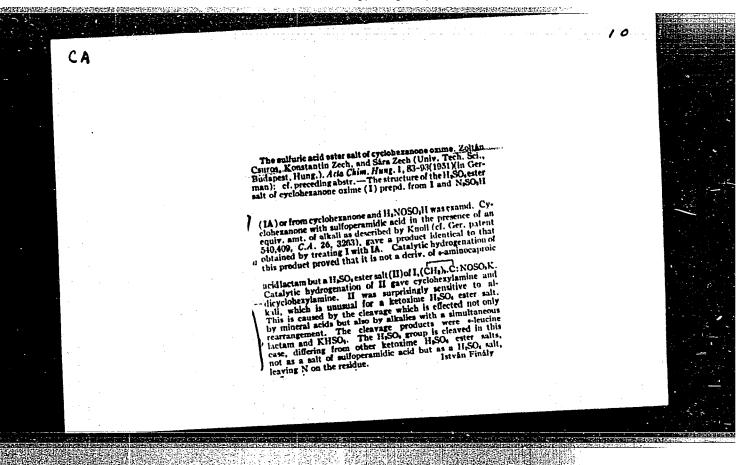




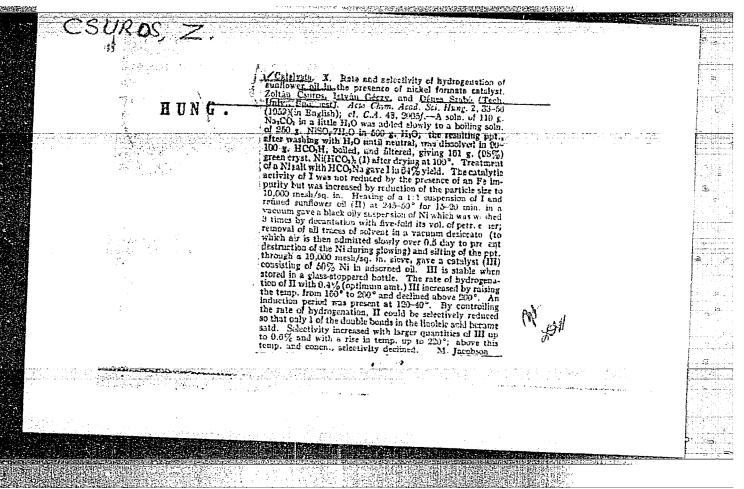


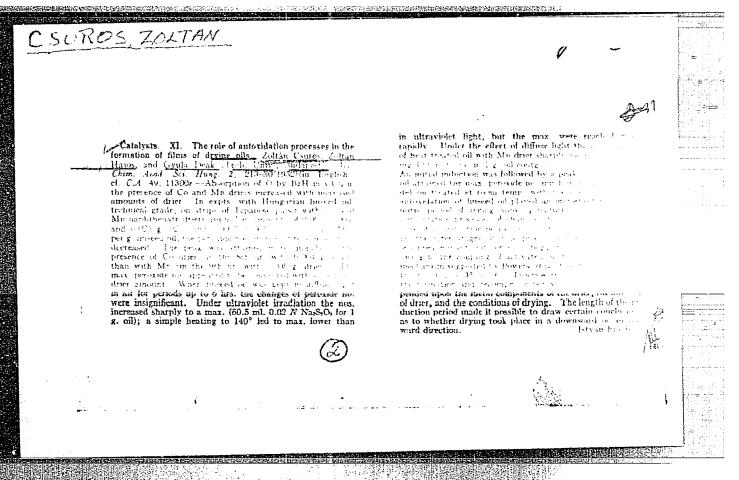
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Z. CSUROS, J. FODOR, Z. HAJOS.

"Investigations on catalysts. XII. Effect of ion exchangers in esterification" p. 459 (ACTA CHIMICA ACADEMIAE SCIENTIARUM HUNGARICAE, Vol. 2, No. 4, 1952, Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

E-1

Hungary/ Organic Chemistry - Theoretical and general questions

on organic chemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11602

XI. <u>Csuros Zoltan</u>, Hajos Zoltan, Deak Gyula. XII. Csuros Zoltan, Fodor Jozsef, Hajos Zoltan. Author

Investigation of Catalytic Reactions. XI. Role of Autoxidation Processes in Formation of Drying Oil Films. XII. Effect of Ion-Exchange Re-Title

sins on Esterification Reaction.

Orig Pub : Katalizatoros vizagalatok. XI. Autoxidacios folyamatok szerepe

szarado olaj filmek kialakulasaban. XII. Ioncserelok hatasa eszterezesre. Magyar tudoman. akad. kem. tudoman, osztalyanak

kozlemenyei 1953, 3, No 4, 469-485; 501-513 (Hungarian)

Abstract : Communication XI. It was ascertained that on autoxidation of C6H5CHO

in CHCl, rate of 0, absorption increases in the case of addition of the siccatives, naphthenates of Co (I) and Mn (II). In the case of large amounts of $\underline{\mathbf{I}}$ or $\underline{\mathbf{II}}$ amount of absorbed $\mathbf{0}_2$ is greater. After absorption of a certain amount of 0_2 the system reaches an equilibrium and further absorption of 0_2 is not observed. On autoxidation of linseed

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Hungary/ Organic Chemistry - Theoretical and general questions on organic chemistry

E-1

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11602

oil (LO) in the presence of \underline{I} or II peroxide value (PV) rises at first and then decreases. In the presence of I maximum PV is reached sooner than in presence of II. Highest value of maximum is associated with the use of definite, optimal, amount of siccative; in the presence of lesser or greater amount of siccative value of PV maximum decreases. Investigated were the variations of PV of LO on irradiation with diffused light, ultraviolet radiations and on heating at 140°. In the first mentioned case a slow linear increase of PV is observed. Under the action of ultraviolet radiations PV increases faster and reaches a definite maximum level. On heating an analogous maximum is reached still faster after which PV drops rapidly; in this case maximum value is lower than on irradiation with ultraviolet. Boiled oil prepared with the use of II, shows on irradiation with diffused light an increase in PV only after a prolonged induction period, after which PV rises sharply to maximum level and then decreases. On exposure to ultraviolet radiations PV of oil increases sharply to a maximum the value of which is higher than in the preceding instance; following the maximum PV drops

Card 2/5

E-1

Hungary/ Organic Chemistry - Theoretical and general questions on organic chemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11602

very rapidly. In this case the maximum is reached more rapidly than in the case of unboiled LO, and the process of decomposition of peroxides also occurs more rapidly than with LO. On heating at 1400 very rapid decomposition of peroxides is observed in the boiled oil under study. In boiled oil PV maximum is attained considerably sooner than in the case of drying oil prepared in the cold with the same siccative as is used in the boiled oil, but in the latter instance the maximum PV level is much lower. During the initial period of drying of LO the chain process of autoxidation is playing a substantial part. As the drying progresses autoxidation becomes of subordinate importance and decomposition of peroxides sets in, which is probably associated with occurence of bond formation between activated molecules of the oil. This confirms the previously proposed mechanism of drying (Powers P.O. et al., Ind. Eng. Chem., 1951, 33, 1257). As concerns the mechanism of action of the siccatives, it was ascertained that they are capable of catalyzing the formation and the decomposition of peroxides.

Card 3/5

B-1

Hungary/ Organic Chemistry - Theoretical and general questions on organic chemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11602

Communication XII. The reaction of phthalic anhydride with butanol was utilized to investigate the effect upon the reaction of esterification, of fractions of different degree of dispersion, of a cathion exchange resin of phenol sulfonic acid type, Wofatit KS. Activity of catalyst (amount of acid group titrated with KOH) increases with increasing degree of dispersion up to a certain limit after which increased degree of dispersion produces no appreciable effect on the activity. Velocity of reaction increases with increasing amount of catalyst up to a certain optimal amount; on use of greater anounts of catalyst velocity of the reaction decreases. On increase of the degree of dispersion of the catalyst its catalytic action (terminal degree of conversion) decreases except for those instances when a highly dispersed catalyst is subjected to activation after comminution. By means of ion-exchange resins it is possible to attain the same extent of conversion as with an equimolecular amount of H2SOh, but more slowly than with H2SOh.

Card 4/5

Hungary/ Organic Chemistry - Theoretical and general questions on organic chemistry

E-1

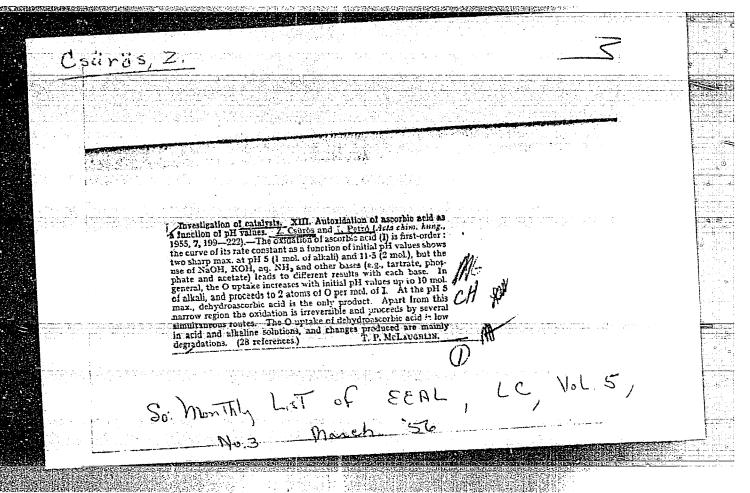
Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11602

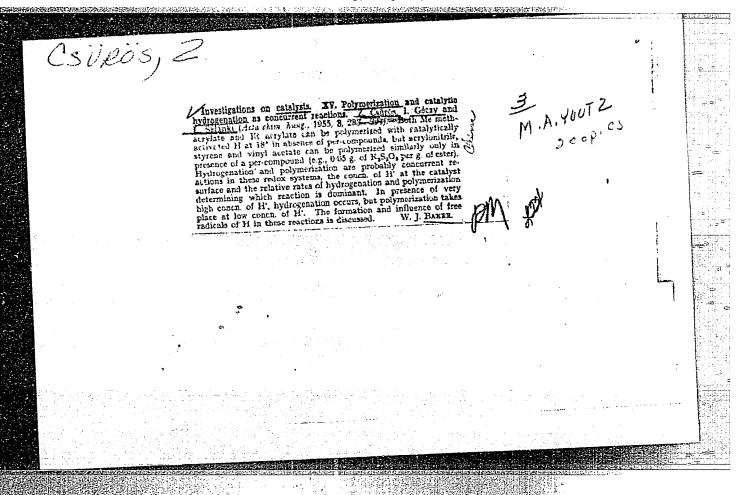
To activate the catalyst it is treated with dilute H2SO4 while

stirring ($\sim 20^{\circ}$). Drying of the catalyst (60°) to constant weight has a detrimental effect on its catalytic properties, therefore it is used in air-dry condition. Communication X see RZhKhim, 1955, 28809.

Card 5/5

CSUROS, Z. 341.125.14 'Autoxidation processes - Autoriddelde folyematok -Z. Califos, (Hungarian Journal of Chemistry - Magyor Rémier Physical - Vol. 59, 1953, No. 3, pp. 83-91, 10 figs., 4 tabs.) It was found (contrary to former data in literature) that the autoxidation rate of ascorbic acid in alkaline media is higher and proceeds further than in acid media, i. c. oxidation is promoted by a higher pH. The effect depends on the bases used, i. e. if the same pH is adjusted by potassium hydroxide, sodium hydroxide or ammonium hydroxide the effect is different. The pli decreases during the reaction, except between pH 2.0 and 5.5, and the Hungarian Technical Abst. higher the starting pH the more it decreases. By using Vol. 6 No. 1 buffer systems which counterbalance the acidification 1954 process, the rate of oxidation increases. Certain compounds, themselves autoxidable, e. g. hydroquinone, increase the oxidation rate by oxygen transport, Materials, with a large specific surface le. g. charcoal, carbonblack) exhibit the same properties probably due to their ability to absorb oxygen. In former experiments on the oxidation of benzaldebyde, in a 10% carbon tetrachloride solution with palladium as catalyst on barium sulfate, it was observed that a certain amount of catalyst could be replaced by an inactive carrier without a change in the reaction rate. This "carrier effect" was investigated in different solvents and on benraidehydo using different catalysts (e. g. palladium on barium sulfate, cupric oxide on kaolin, etc.). It was concluded that the "carrier effect" is observable not only in connection with precious justal catalysts but in the case of matal paides to B. There naido) an well.





CSUROS, Z.: GECZY, I.

Magyar Kemikusok Lapja - Vol. 10, no. 5, May 1955

O-cresol as the new raw material of our chemical industry. p. 153.

SO: Monthly list of East European Accessions, (EEAL), IC, Vol. 4, No. 9, Sept. 1955

Uncl.

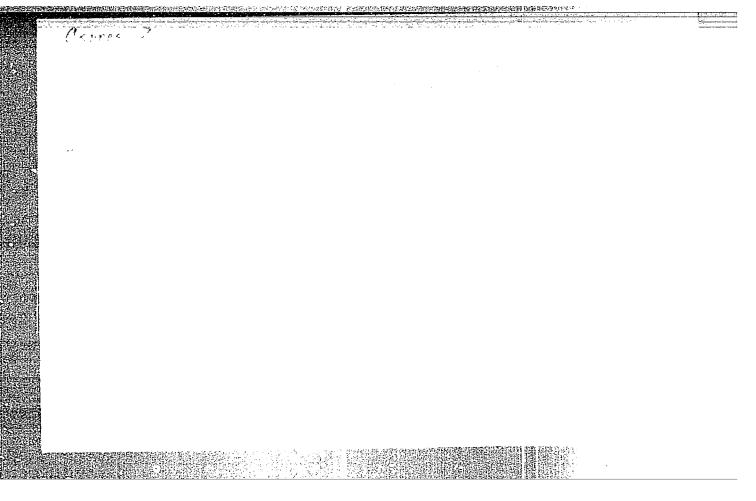
7	eure Entwicklung auf dem Gebiet der Theorie und Praxis der Hochpolymeren
(Hauptja Republi)	hrestagung 1956 der Chemischen Gesellschaft in der Deutschen Demokratischen
Aus dem	Tagungsprogramm - Nachmittags: Gruppe C:
	Prof., Dr. Z. CSUROS, Budapest, "Polymerization und katalytische Hudrierung als ente Reaktionen."
	는 사용되었다. 그 사용되는 전투를 발표하는 것이 되었다. 그 사용
SOURCE:	Plaste und Kautschuk, October 1956, Unclessified.
SOURCE:	Plaste und Kautschuk, October 1950, Unclassifieu.
SOURCE:	Plaste und Kautschuk, October 1950, Unclassifieu.

CSURCS, Z.; FETRO, J.

CSURCS, Z.; FETRO, J. Examinations by catalysts. XVI. Autoxidation of ascorbic acid in the starting pH function by various alkalies. P. 137.

Vol. 8, No. 1, 1956
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Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957



CSUROS, Z.

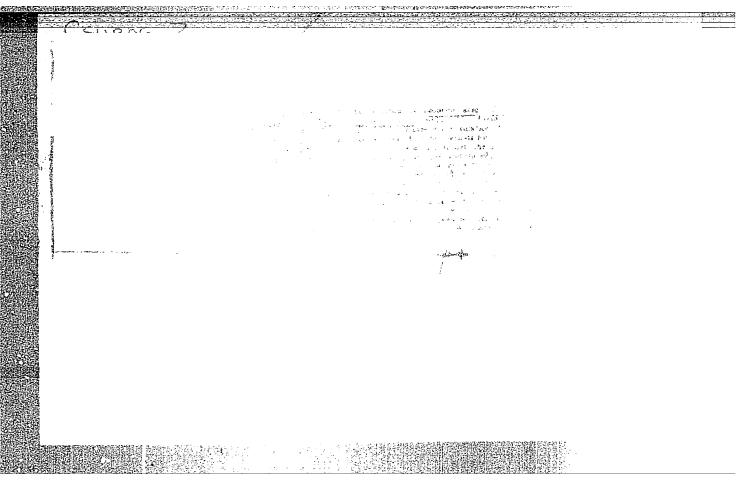
CSUROS, Z. - Geza Zemplen (1883-1956). p. 225. Vol. 11, no. 8, Aug. 1956 Magyar Kemikusok Lapja, Budapest, Hungary

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

CSUROS, Z.

CSURCS, Z. - Lajos Kovacs <u>Muanyag zsebkonyv (Handbook on Plastic Materials)</u>; a book review, p. 259 Vol. 11, no. 8, Aug. 1956 MAGYAR KEMIKUSOK LAPJA - Budapest, Hungary

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4- April 1957



HUNGARY / Organic Chemistry. Natural Substances and Their Synthetic Analogues.

G-3

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57600.

Author : Cauros Z., Petro J.

Inst : Not given.

Title : Investigations of Catalysis. XVII. Autooxidation of Ascorbic Acid as a Function of Temperature and

Initial pH.

Orig Pub: Magyar tud. akad. kem. tud. oszt. kosl., 1957,

No 1, 43-60.

Abstract: Effect of temperature on the addition of oxygen (AO) to ascorbic acid (I) was investigated. At a pH <3, AO increases to a greater degree with increasing temperature than in neutral media (at pH of 4-8) or in alkaline media (pH >8). At a 0.4 pH (acidified with HCl) and at 60°, 5 times more

Card 1/5

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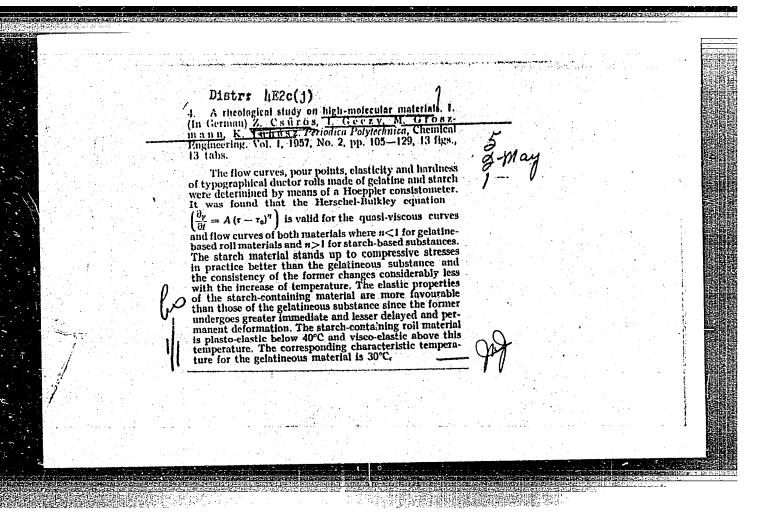
APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R0005094

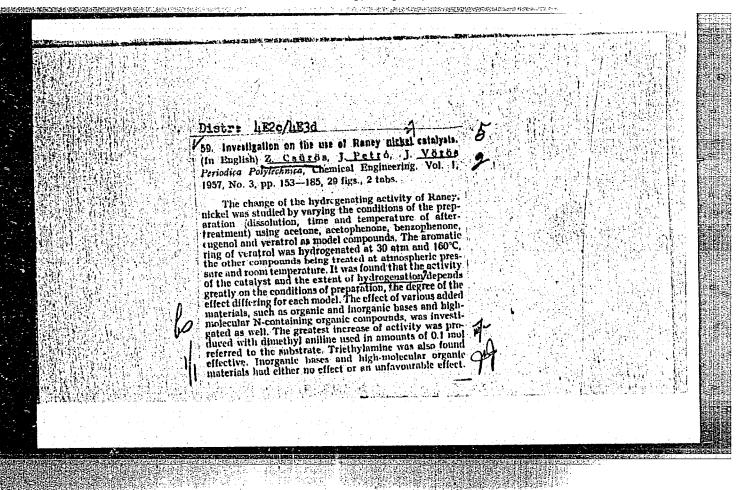
HUNGARY / Organic Chemistry. Natural Substances and G-3
Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57600.

Abstract: 02 goes into the combination than it does at 30° and with pH varying from 4-8 and >8. With the increase in temperature from 30° to 60° the A0 increases only by 20-30%. In alkaline media the A0 proceeds faster, with the equilibrium being established in 1-2 hours. In an acid medium the equilibrium is not reached in 3 hours. At a pH of 4-6 and at a temperature of 40° and higher, the increase in pH, as the result of reaction, is not noticed. At 50° and higher, in all the cases, pH tends to decrease toward the end. The highest A0 was noticed at 90°. Three A0 maxima occur at 0.5,

Card 2/5





HUNGARY / Physical Chemistry. Kinetics. Combustion. B-9 Explosives. Topochemistry. Catalysis.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76756.

Author : Csueroes, Z., Geczy, I., and Keresztely, T.

Inst : Not given.

Title : Catalytic Studies. VIII. Change in the Reaction

Order in the Hydrogenated Compound During Cata-

lytic Hydrogenation.

Orig Pub: Magyar Tud Akad Kem Tud Oszt Koezl, 9, No 2,

195-205 (1957) (in Hungarian).

Abstract: On the basis of previously published data on the catalytic hydrogenation of cinnamic, maleic, and

catalytic hydrogenation of cinnamic, maleic, and fumaric acid, the authors arrived at the conclusion that in the course of the hydrogenation the order of the reaction in the hydrogenated com-

Card 1/2

4.4

APPROMEDITOR REJEASE: Thursday, July 1272 t 1990 Coc 14 s RD 186-005 13 R 000 5094
Explosives. Topochemistry. Catalysis.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76756.

Abstract: pound increases in the majority of cases from 0

to 0.6. In isolated cases when very small amounts of catalyst are used the order of the reaction does not change. For communication XVII see

RZhKhim 1958, 57600.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

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HUNGLRY / High Molecular Chemistry.

Ibs Jour

: Ref Zhur - Khim., No 3, 1959, 10562

duration of stirring, and time of storage, on properties of pastes prepared from poly(vinyl chloride) powder and different plasticizers of the dialkyl phthalate series. For this purpose a determination was made of the viscosity curves of the preparations under study. Shear stress was measured in the interval 10-300 g/cm², displacement rate varied between 0.1-5 cm/sec. Flow velocity of the pastes under study is not proportional to shear stress. Viscosity of pastes obtained on vigorous stirring is higher than that of corresponding pastes prepared with gentle stirring. This difference is enhanced with increasing content of poly(vinyl chloride) in the paste. Viscosity is also increased with increased duration of stirring. After stirring for 50-60 minutes, the increase in viscosity reaches maximum value. Change in

Card 2/3

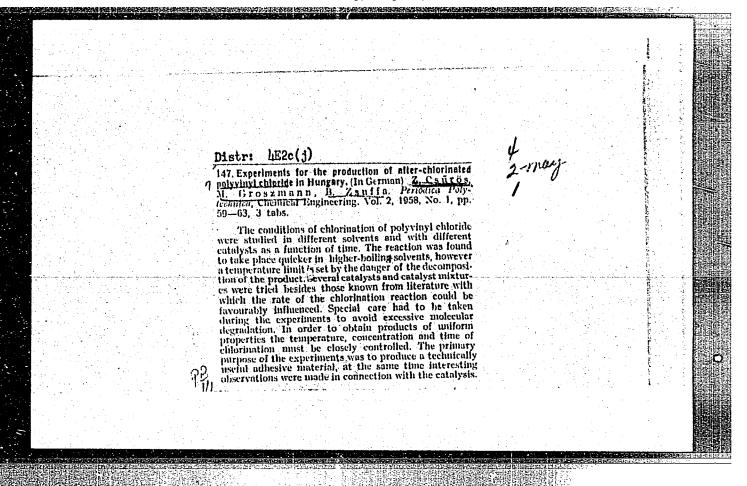
HUNGLRY / High Molocular Chemistry.

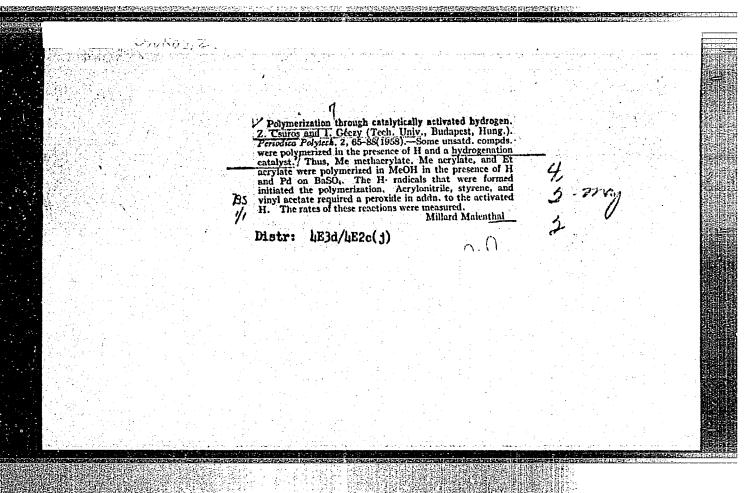
: Ref Zhur - Khim., No 3, 1959, No 10562

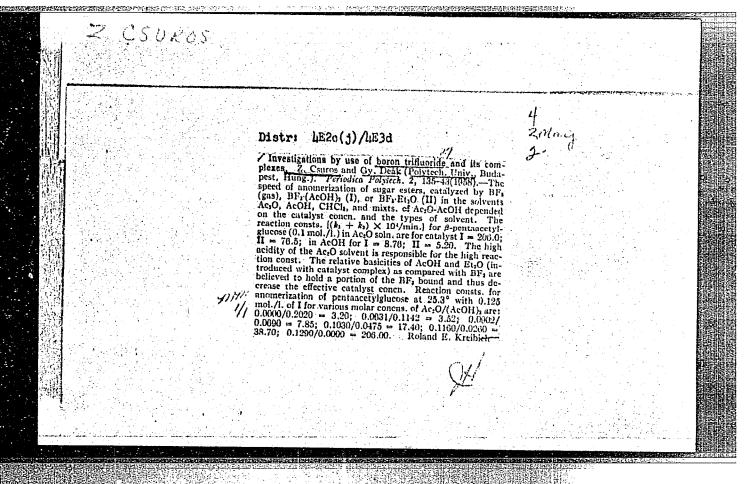
lbs Jour APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R0005094

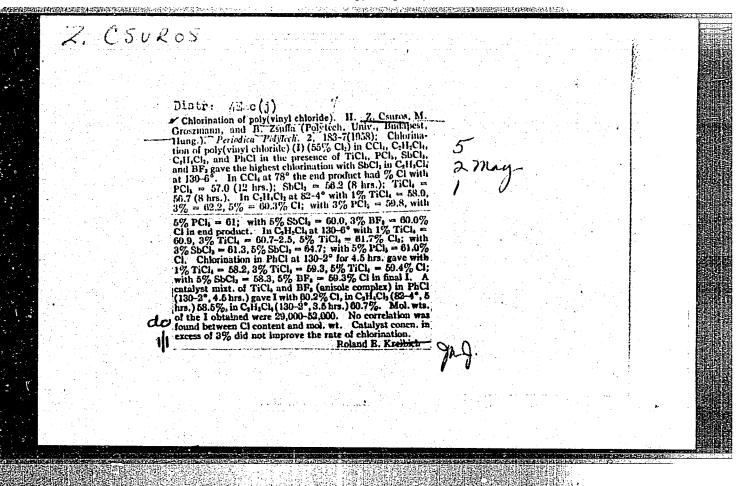
> viscosity on standing depends on composition of paste and the duration of stirring at the time of preparation. Duration of stirring at the time of preparation. Duration of stirring has a considerably greater effect than length of storage of the paste. III. An Ostwald viscosimeter was used to determine characteristic viscosity [7] of some samples of polyethylene of known molecular weight H, in paraffin oil (paraffin hydrocarbons containing 20-21 C-atoms) at 850 and 140°. The following correlations were found: $[71] = 2.898 \cdot 10^{-4} \, \text{M}^{0.7762}$ at 85°; $[71] = 2.766 \cdot 10^{-3} \, \text{M}^{0.7762}$ at 1400. Part I, see RZhKhim, 1958, 72806. -- S. Zelilaman.

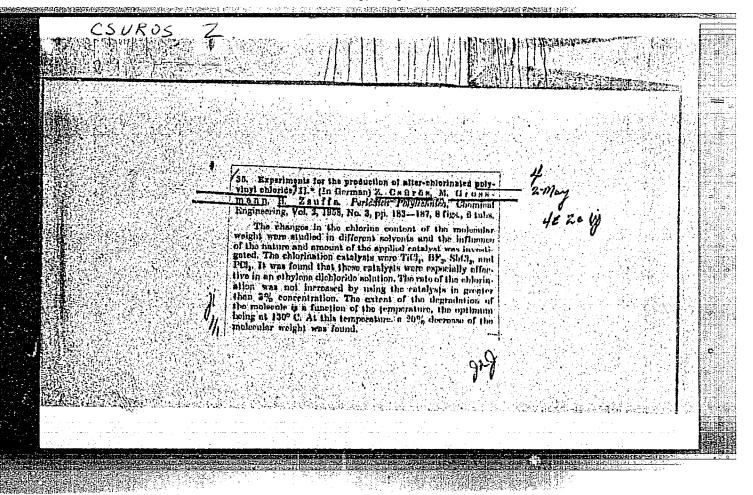
Card 3/3











Combustion. B-9 HUNGARY / Physical Chemistry -- Kinetics. Explosions. Topochemistry. Catalysis.

: Referat Zhur--Khimiya, No. 11, 1959, 37927 Abs Jour

Author

: Csueroes, Z.; Geczy, I.; and Czuffa, B. : Hungarian Academy of Sciences : Investigation of Catalysts. XXI. Catalytic Hydrogenation and Polymerization Processes as Inst Title Competing Reactions. III. Kinetics and Mechanism of the Catalytic Redox Polymerization of

Aerylonitrile.

: Magyar Tud Akad Kem Tud Oszt Koezl, 2, No. 4, 423-432 (1958) (in Hungarian); Makromolek Chem, 27, No. 3, 180-191 (1958) (in German) Orig Pub

: The authors have studied the polymerization of Abstract

aqueous acrylonitrile solutions under an atmo-

Card 1/3

34

HUNGARY / Physical Chemistry -- Kinetics. Combustion. B-9
Explosions. Topochemistry. Catalysis.

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 37927

sphere of H₂ in the presence of K₂S₂O₈ (I), using Pd catalysts precipitated on BaSO₄. It is shown that the rate of polymerization is proportional to the square root of the concentration of I and that with increasing monomer concentration, the rate of polymerization passes through a maximum. The degree of polymerization depends linearly on the time. The presence of an induction period has been established; the length of that period depends on the concentration of I. The kinetic relationships for the system described are the same as those obtaining in the polymerization of acrylonitrile in other redox systems. From this the authors conclude that the primary stage of the polymerization proceeds not at the

Card 2/3

APRROVED FOR REIGASE helihutsday, Kludy, 27g 2000 mbu GIA oRDP86-09513R000509 Explosions. Topochemistry. Catalysis.

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 37927

surface of the catalyst but in the solution. For Communication XX see RZhKhim, 1959, 30579.
-- S. Rozenfel'd

CSUROS, Z.; DEAK, GY.; VARSANYI, GY.

Examinations by catalysts. XXIX. Catalyzed anomerization of pentaacetylene-D-glucose with boron trifluoride. II. Anomerization in chloroform. p. 389.

Magyar Tudomanyos Akademia. Kemiai Tudomanyok Osztalya. KOZLEMENYEI. Budapest, Hungary, Vol. 10, No. 3, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959 UNCL

Osuros, $\mathbb{Z}_{\bullet,\bullet}$ and others.

Rheologic investigation of macromolecular substances. IV. Rheologic investigation of PVC pastes. II. Effect of temperature on PVC pastes . p. 467.

Magyar Tudomanyos Akademis. Kemiai Tudomanyok Osztalya. KOZLEMENYEI. Budapest, Hungary, Vol. 10, No. 4, 1958

Nonthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959 Uncl.